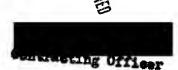
DPD-0505-60 21 January 1959

HENCHANDRM FOR: Audit Limison Officer

SUBJECT

: Engineering Change Proposal CDC-3 David Clark Company, Incorporated

- 1. Enclosed is copy No. 2 of DPD-0290-60 from the David Clark Company, Inc. and two copies of ECP No. CDC-3.
  - 2. Your review and somments are requested.



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DRO\_DD/ (21-1-60) Distribution:

Orig - Audit Limison Officer w/cy 2 of DPD-0290-60

cc - Contracts w/cy 1 of DPD-0290-60

cc - Chrono

DOCUMENT NO. 2 NO CHANGE IN CLASS. D DECLASSIFIED CLASS, CHANGED TO: TS S C NEXT REVIEW DATE: \_ AUTH: HR 70-2 DATE: 02063/ REVIEWER: 010956

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7 January 1960

#### Dear Dan:

In response to verbal request from staff personnel of your organization, we enclose Engineering Change Proposal CDC-3 for your consideration.

One item on the Estimated Bill of Materials, namely, conductive coating on the helmet visor, may appear to be quite high. This conductive coating is a fairly new process and it was difficult to obtain accurate estimates; while we cannot be certain, we feel that it may ultimately be less on volume production.

Should any further information, or more complete breakdown, in any category be required, we shall be pleased to furnish it.

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DATE 7 January 1960	AFFECTS	WSPO		PRO <b>JECT</b>	x
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DAVID CLARK COMPANY

Engineering Change Proposal CDC-3 7 January 1960

# Attachment #1

# Nature of Proposal

- a. Provide a replacement item for the Type MA-2 High Altitude Helmet without change of associated protective garments.
- b. Facepiece seal and locking pneumatic ring will be connected by non-kinking, non-collapsible, one-quarter inch hose to the upstream side of the seat pack oxygen inlet check valve. The sealing ring will operate at any pressure in range of forty five to one hundred p.s.i. Seal pressure hose will be routed immediately adjacent to present oxygen mask delivery hose.

DAVID CLARK COMPANY

Engineering Change Proposal CDC-3 7 January 1960

## Attachment #2

## Reason for Proposal

- a. Helmet would provide an integrated facepiece which would enhance operational capability and safety by providing easy and positive opening and closing of the facepiece without detachment of this item.
- b. Helmet would provide an integrated sun shield and facepiece guard.
- c. Inner head harness is integral and supported by the hard shell and can be adjusted by the wearer during normal wear.
- d. Improved comfort to the wearer in the glottis area due to improved design of the neck seal skirt.
- e. Improved maintenance capability by eliminating critical facepiece seal required on bladder and cover assembly, or S-692 Cover and Bladder Assembly.
- f. Improved maintenance capability by eliminating potential helmet bladder puncture by helmet hold-down attachments.
- g. Improved inhalation and exhalation valve arrangement. New type exhalation valve provides opportunity for emergency control of exhalation valve if stuck open under pressure.

DAVID CLARK COMPANY

Engineering Change Proposal CDC-3 7 January 1960

#### Attachment #2

# Reason for Proposal (continued)

h. Improved windblast protection resulting from integral design of facepiece and helmet shell.

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DAVID CLARK COMPANY

Engineering Change Proposal CDC-3 7 January 1960

## Attachment #3

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#### a. Estimated Cost

Item One - Production Sample Helmet

\$

## Scope of Work

Modify current David Clark Company Model S-880 Helmet used with the A/P-22S-2 full pressure suit so that it will be compatible with the partial pressure suits utilized on the project.

Specific areas of modification are as follows:

- I. Modify helmet mold to delete neck bearing, and provide for attachment of neck seal skirt.
- II. Redesign the S-692 Helmet Bladder and Case
  Assembly neck seal skirt to adapt to the hard
  shell made from the mold in "I" above.
- III. Redesign the helmet suspension so that the face seal can be eliminated without affecting support and adjustability.
- IV. Provide for mounting the inspiratory and expiratory valves, hose connectors, electrical and communications leads.
- V. Provide conductive coated face plate for normal and emergency face plate heat.

Item Two - Thirty (30) to fifty (50) each Production Helmets

Unit Price

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DAVID CLARK COMPANY

Engineering Change Proposal CDC-3 7 January 1960

## Attachment #3

# b. Estimated Delivery

Item One - Sixty (60) days from date of authorization to proceed with ECP.

Item Two - First ten (10) helmets sixty (60) days from date of authorization to proceed with Item Two.

Additional twenty (20) helmets sixty (60) days from date of delivery of first ten (10).

Additional twenty (20) helmets thirty days from date of delivery of above quantity of twenty (20).

Next 5 Page(s) In Document Exempt